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Use of alpha-Alkyl-styryl derivatives (I) as photostable UV-filter in  
cosmetic or pharmaceutical compositions for protecting human skin or hair  
against sun light

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Number of Countries: 028 Number of Patents: 008  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1005855	A1	20000607	EP 99122884	A	19991118	200032 B
DE 19855649	A1	20000608	DE 1055649	A	19981203	200033
JP 2000169354	A	20000620	JP 99340616	A	19991130	200036
CN 1264575	A	20000830	CN 99127874	A	19991203	200059
US 6159455	A	20001212	US 99451859	A	19991201	200067
EP 1005855	B1	20030604	EP 99122884	A	19991118	200344
DE 59905819	G	20030710	DE 505819	A	19991118	200347
			EP 99122884	A	19991118	
ES 2201621	T3	20040316	EP 99122884	A	19991118	200424

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Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1005855	A1	G	25	A61K-007/42	
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LI LT LU LV MC MK NL PT RO SE SI					
DE 19855649	A1			A61K-007/40	
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US 6159455	A			A61K-007/42	
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DE 59905819	G			A61K-007/42	Based on patent EP 1005855
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Abstract (Basic): EP 1005855 A1

NOVELTY - alpha-Alkyl-styryl derivatives (I) are used as photostable UV-filter in cosmetic or pharmaceutical compositions for protecting the human skin or hair against the sun light, optionally combined with other components absorbing in the UV range.

DETAILED DESCRIPTION - alpha-Alkyl-styryl derivatives of formula (I) are used as photostable UV-filter in cosmetic or pharmaceutical compositions for protecting the human skin or hair against the sun light, optionally combined with other components absorbing in the UV range.

R1, R2=H, OH, NH2, 1-12C alkyl, 1-12C alkoxy, 1-12C alkylamino, 1-12C dialkylamino, water soluble substituents such as carboxylate, sulfonate or ammonium residues;

R3, R4=COOR6, COR6, CONR6R7 or CN;

R5=1-12C alkyl;

R6, R7=H, 1-12C alkyl, 2-10C alkenyl, 3-10C cycloalkyl, 3-10C cycloalkenyl, aryl or heteroaryl (all optionally substituted);

A=O, S or NR8

B'=1-12C alkylene, 4-12C cycloalkylene, 8-22C aralkylene, 9-21C monooxoaralkylene or -(X)n-Y'-;

R8=H or 1-12C alkyl;

X=-(CH2)2-Z-, -(CH2)3-Z-, -CH(CH3)2-CH2-Z-, -(CH2)4-Z- or -CH2-CH(CH2-CH3)-Z-;

Y'=-(CH2)2-, -(CH2)3-, -CH(CH3)-CH2-, -(CH2)4- or -CH2-CH(CH2-CH3)-;

Z=O or S;

n=1-150;

two of R1, R2 and R8=form 5- to 6-membered ring fused to the benzene ring.

An INDEPENDENT CLAIM is also included for a sunscreen comprising the cosmetic and pharmaceutical composition for protecting the human epidermis and hair against UV light (280-400 nm) containing (I).

USE - (I) are useful as photostable UV-A filters or UV stabilizers in cosmetic or pharmaceutical compositions for protecting against UV light (280-400 nm).

ADVANTAGE - (I) have a high absorption capacity in a precise band of the UV-A rays. (I) are soluble in cosmetic oils and easy to use in cosmetic formulations. The emulsions comprising (I) have an high stability and provide an agreeable feeling to the skin. (I) have a high photostability

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Title Terms: ALPHA; ALKYL; STYRYL; DERIVATIVE; PHOTOSTABLE; ULTRAVIOLET; FILTER; COSMETIC; PHARMACEUTICAL; COMPOSITION; PROTECT; HUMAN; SKIN; HAIR; SUN; LIGHT

Derwent Class: B05; D21

International Patent Class (Main): A61K-007/02; A61K-007/40; A61K-007/42

International Patent Class (Additional): A61K-007/00; A61K-007/06;

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